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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,013	01/21/2004	Bruce A. Benfield	SVL920030105US1	6192

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EXAMINER
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TAYLOR, NICHOLAS R

ART UNIT	PAPER NUMBER
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2141

MAIL DATE	DELIVERY MODE
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02/25/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/763,013	<b>Applicant(s)</b> BENFIELD ET AL.	
	<b>Examiner</b> NICHOLAS R. TAYLOR	<b>Art Unit</b> 2141	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 31 December 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,5-10,13-17,19 and 20 is/are rejected.
- 7) ☒ Claim(s) 3,4,11,12 and 18 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☒ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. Claims 1-20 have been presented for examination. Claims 1, 2, 5-10, 13-17, 19, and 20 are rejected. Claims 3, 4, 11, 12, and 18 are objected to.
2. In light of Applicant's amendments to the claims, the rejections under 35 U.S.C. § 101 and 112 are withdrawn.

### ***Response to Arguments***

3. Applicant's arguments filed December 31st, 2007, have been fully considered but they are deemed not persuasive.
4. In the remarks, applicant argued in substance that:

(A) The prior art of Ingersoll does not teach a schema information document that formalizes and records meta-information of the schema, wherein the meta-information of the schema includes identification of a primary schema document, identification of other associated schema documents, and how the primary and the other schema documents are related to each other.

As to point (A), Ingersoll teaches an automatically generated schema document based on a schema and one or more associated schema documents (col. 4, lines 8-24

and 41-48; col. 5, lines 1-44). The information document records meta-information about the schema documents (see, e.g., col. 5, lines 11-18 where the attributes are described, including namespace, library name, language, versioning, etc.). The meta-information includes an identification of a primary schema document, associated documents, and how the other schema documents are related to each other (see, e.g., the hierarchical relationship in fig. 3; the meta-information defining family tree-structure including "major" versions in col. 5, lines 18-30; and parent, i.e. primary, node typing of 34-44). The information document further includes a three-part composite key that includes a target namespace and a schema location (see, e.g., attributes listed in col. 5, lines 7-24 and 44-55).

### ***Allowable Subject Matter***

5. Claims 3, 4, 11, 12, and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### ***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application

filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1, 2, 5-10, 13-17, 19, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Ingersoll et al. (U.S. Patent 7,047,488).

8. As per claims 1, 19, and 17, Ingersoll teaches a method for managing schemas, comprising:

registering a schema and one or more associated schema documents;  
automatically generating a schema information document based on the schema and the one or more associated schema documents, wherein the schema information document formalizes and records meta-information of the schema, wherein the meta-information of the schema includes identification of a primary schema document, identification of other associated schema documents, and how the primary and the other schema documents are related to each other; and (Ingersoll, col. 4, lines 8-24 and 41-48; col. 5, lines 1-44; fig. 3 structure)

processing a request to be performed on at least one of the schema and an associated schema document using the schema information document (Ingersoll, e.g., col. 5, line 61 to col. 6, line 11; see fig. 14).

9. As per claims 2 and 10, Ingersoll teaches the system further comprising:

storing an identifier for the schema, wherein the identifier includes a three-part composite key and a unique name, wherein the three-part composite key includes a target namespace and a schema location; and storing identifiers for each of the one or more associated schema documents, wherein each identifier includes a three-part

composite key (Ingersoll, col. 5, lines 1-35 where the attributes are described; see also col. 5, lines 44-54 and col. 8, lines 6-29).

10. As per claims 5 and 13, Ingersoll teaches the system further wherein the request comprises deregistering the schema according to deregister rules associated with the schema when the schema is registered (Ingersoll, col. 5, line 61 to col. 6, line 3).

11. As per claims 6 and 14, Ingersoll teaches the system wherein the request comprises lookup of a schema and further comprising:

when there is one matching schema, returning the matching schema; when there are multiple matching schemas, applying a filter to identify one matching schema; and when there is no matching schema, applying at least one of a user-defined technique and a system defined technique to find a matching schema, wherein information in the schema information document is used to locate associated schema documents when the schema has been identified (Ingersoll, col. 6, line 63 to col. 7, line 27 and figs. 6 and 7).

12. As per claims 7 and 15, Ingersoll teaches the system further wherein the request comprises replacement of at least one of the schema and one of the schema documents and further comprising:

replacing the schema if a new schema is backward compatible; and replacing one of the schema documents if a new schema document is backward compatible

(Ingersoll, col. 5, line 61 to col. 6, line 11, where the schema is validated for compatibility before replacement).

13. As per claims 8, 16, and 20, Ingersoll teaches the system further wherein the request comprises access of at least one of the schema and one of the schema documents and wherein access is granted based on an access privilege associated with a user and the schema (Ingersoll, e.g., see the user and admin privilege type associated with fig. 14).

14. As per claim 19, Ingersoll teaches the system further wherein the request comprises one of deregistering the schema according to deregister rules associated with the schema when the schema is registered, lookup of a schema, and replacement of at least one of the schema and one of the schema documents (Ingersoll, col. 5, line 61 to col. 6, line 3).

### ***Conclusion***

15. Applicant's amendment necessitated any new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Taylor whose telephone number is (571) 272-3889. The examiner can normally be reached on Monday-Friday, 8:00am to 5:30pm, with alternating Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/NT/  
Nicholas Taylor  
Examiner  
Art Unit 2141

/Jason D Cardone/  
Supervisory Patent Examiner, Art Unit 2145